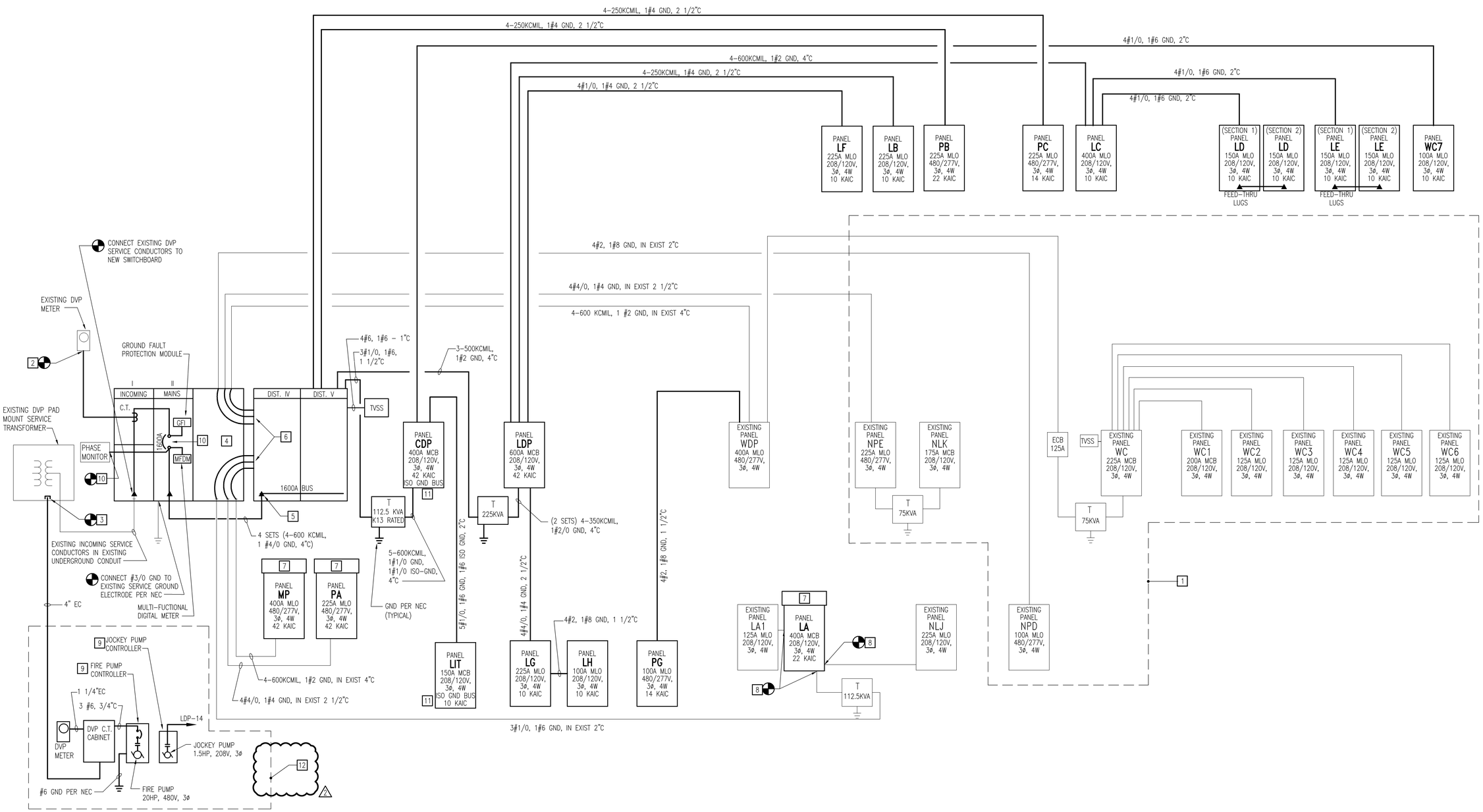
4–250KCMIL, 1#4 GND, 2 1/2"C
4–250KCMIL, 1#4 GND, 2 1/2"C
4–600KCMIL, 1#2 GND, 4"C
4–250KCMIL, 1#4 GND, 2 1/2"C
4#1/0, 1#4 GND, 2 1/2"C
4#1/0, 1#6 GND, 2"C
4#1/0, 1#6 GND, 2"C
4#1/0, 1#6 GND, 2"C
PANEL LF 225A MLO 208/120V, 3ø, 4W 10 KAIC
PANEL LB 225A MLO 208/120V, 3ø, 4W 10 KAIC
PANEL PB 225A MLO 480/277V, 3ø, 4W 22 KAIC
PANEL PC 225A MLO 480/277V, 3ø, 4W 14 KAIC
PANEL LC 400A MLO 208/120V, 3ø, 4W 10 KAIC
(SECTION 1) PANEL LD 150A MLO 208/120V, 3ø, 4W 10 KAIC
FEED–THRU LUGS
(SECTION 2) PANEL LD 150A MLO 208/120V, 3ø, 4W 10 KAIC
(SECTION 1) PANEL LE 150A MLO 208/120V, 3ø, 4W 10 KAIC
FEED–THRU LUGS
(SECTION 2) PANEL LE 150A MLO 208/120V, 3ø, 4W 10 KAIC
PANEL WC7 100A MLO 208/120V, 3ø, 4W 10 KAIC
CONNECT EXISTING DVP SERVICE CONDUCTORS TO NEW SWITCHBOARD
EXISTING DVP METER
GROUND FAULT PROTECTION MODULE
EXISTING DVP PAD MOUNT SERVICE TRANSFORMER
PHASE MONITOR
INCOMING
MAINS
DIST. IV
DIST. V
C.T.
GFI
MFDM
1600A
1600A BUS
4#6, 1#6 – 1"C
3#1/0, 1#6, 1 1/2"C
3–500KCMIL, 1#2 GND, 4"C
TVSS
T 112.5 KVA K13 RATED
T 225KVA
4 SETS (4–600 KCMIL, 1 #4/0 GND, 4"C)
5–600KCMIL, 1#1/0 GND, 1#1/0 ISO–GND, 4"C
GND PER NEC (TYPICAL)
(2 SETS) 4–350KCMIL, 1#2/0 GND, 4"C
EXISTING INCOMING SERVICE CONDUCTORS IN EXISTING UNDERGROUND CONDUIT
CONNECT #3/0 GND TO EXISTING SERVICE GROUND ELECTRODE PER NEC
4" EC
MULTI–FUCTIONAL DIGITAL METER
PANEL CDP 400A MCB 208/120V, 3ø, 4W 42 KAIC ISO GND BUS
PANEL LDP 600A MCB 208/120V, 3ø, 4W 42 KAIC
PANEL MP 400A MLO 480/277V, 3ø, 4W 42 KAIC
PANEL PA 225A MLO 480/277V, 3ø, 4W 42 KAIC
PANEL LIT 150A MCB 208/120V, 3ø, 4W ISO GND BUS 10 KAIC
PANEL LG 225A MLO 208/120V, 3ø, 4W 10 KAIC
PANEL LH 100A MLO 208/120V, 3ø, 4W 10 KAIC
PANEL PG 100A MLO 480/277V, 3ø, 4W 14 KAIC
4#2, 1#8 GND, IN EXIST 2"C
4#4/0, 1#4 GND, IN EXIST 2 1/2"C
4–600 KCMIL, 1 #2 GND, IN EXIST 4"C
4–600KCMIL, 1#2 GND, IN EXIST 4"C
4#4/0, 1#4 GND, IN EXIST 2 1/2"C
5#1/0, 1#6 GND, 1#6 ISO GND, 2"C
4#4/0, 1#4 GND, 2 1/2"C
4#2, 1#8 GND, 1 1/2"C
4#2, 1#8 GND, 1 1/2"C
3#1/0, 1#6 GND, IN EXIST 2"C
EXISTING PANEL WDP 400A MLO 480/277V, 3ø, 4W
EXISTING PANEL NPE 225A MLO 480/277V, 3ø, 4W
EXISTING PANEL NLK 175A MCB 208/120V, 3ø, 4W
T 75KVA
ECB 125A
TVSS
EXISTING PANEL WC 225A MCB 208/120V, 3ø, 4W
T 75KVA
EXISTING PANEL WC1 200A MCB 208/120V, 3ø, 4W
EXISTING PANEL WC2 125A MLO 208/120V, 3ø, 4W
EXISTING PANEL WC3 125A MLO 208/120V, 3ø, 4W
EXISTING PANEL WC4 125A MLO 208/120V, 3ø, 4W
EXISTING PANEL WC5 125A MLO 208/120V, 3ø, 4W
EXISTING PANEL WC6 125A MLO 208/120V, 3ø, 4W
EXISTING PANEL LA1 125A MLO 208/120V, 3ø, 4W
PANEL LA 400A MCB 208/120V, 3ø, 4W 22 KAIC
EXISTING PANEL NLJ 225A MLO 208/120V, 3ø, 4W
EXISTING PANEL NPD 100A MLO 480/277V, 3ø, 4W
T 112.5KVA
9 JOCKEY PUMP CONTROLLER
9 FIRE PUMP CONTROLLER
1 1/4"EC
3 #6, 3/4"C
LDP–14
DVP C.T. CABINET
DVP METER
JOCKEY PUMP 1.5HP, 208V, 3ø
#6 GND PER NEC
FIRE PUMP 20HP, 480V, 3ø
12
2

POWER RISER DIAGRAM – NEW WORK

NO SCALE

NOTES THIS SHEET

1. EQUIPMENT SHOWN TO ILLUSTRATE COMPLETE ELECTRICAL SYSTEM AND ASSOCIATED EXISTING FEEDER CONNECTIONS.
2. PROVIDE 1 1/4" E.C. AND CONNECT TO EXISTING DVP METER.
3. PROVIDED CONDUIT AS INDICATED FOR NEW FIRE PUMP FEEDER CONNECTION TO SECONDARY COMPARTMENT OF EXISTING DVP TRANSFORMER. COORDINATE ALL REQUIREMENTS WITH DVP.
4. PROVIDE FULL–HEIGHT PULL BOX SECTION FOR PULLING OF FEEDERS FROM EXISTING PANELS TO BREAKERS IN NEW SWITCHBOARD SECTIONS. COORDINATE WITH MAIN SWITCHBOARD 'MSB' SCHEDULE.
5. CONNECT TO 1600A BUS OF SWITCHBOARD DISTRIBUTION SECTIONS.
6. COORDINATE EXTENSION/CONNECTION OF FEEDERS WITH MAIN SWITCHBOARD 'MSB' SCHEDULE
7. PROVIDE 8"H X WIDTH AND DEPTH AS REQUIRED PULL BOX ON TOP OF NEW PANELBOARD IN SAME LOCATION OF FORMER EXISTING PANEL TO FACILITATE EXTENSION OF EXISTING BRANCH CIRCUIT WIRING TO NEW BREAKERS. LOCATE PANEL'S BOTTOM ON TOP OF EXISTING BRANCH CIRCUIT AND/OR FEEDER CONDUIT.
8. CONNECT EXISTING PANEL FEEDERS TO NEW PANEL AS INDICATED. COORDINATE WITH PANELBOARD SCHEDULES.
9. FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER ARE PROVIDED WITH FIRE PUMP.
10. SHUNT TRIP MAIN CIRCUIT BREAKER. CONNECT TO EXISTING PHASE MONITOR.
11. PROVIDE 200% NEUTRAL BUS.
12. CONTRACTOR SHALL CONNECT/INSTALL IN ACCORDANCE WITH NEC ART 695. (2)

nbj ARCHITECTURE
A Professional Limited Company
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Richmond, Virginia 23059
℡ (804) 273-9811 fax: (804) 273-9843

RAPPAHANNOCK COMMUNITY COLLEGE
CAMPUS RENOVATIONS
WARSAW + GLENNS, VIRGINIA
PC: 260–17712

WARSAW CAMPUS ELECTRICAL
POWER RISER DIAGRAM

Date: MARCH 3, 2010

REVISIONS	
NO.	DATE
2	MARCH 3, 2010

COMMONWEALTH OF VIRGINIA
JAMES S. BEDOIS
Lic. No. 032929
PROFESSIONAL ENGINEER

Sheet
E5.2W
File Number

PACE COLLABORATIVE
MECHANICAL ELECTRICAL ENGINEERS
VIRGINIA BEACH, VA - 757-490-7223